Rec: Febr 5th
ans 19th

Cambridge, Jany. 29th 1866.

Dear Engelmann.

Your latest is of the 20th.
By this time Fendler has probably written to you that he can't bring you the parcel here for you. Shall I send the publications only, leaving the plants.

Well, it is excellent your getting hold of E. Meyer's things. I. pelocarpus = Cunradii. Yours, I. pelocarpus will have to be re=stored unless "I. Muhlenbergii Spreng" is certified to be it, and to be older.

Torrey was here — only 3 days, — & then went on to Washington. He says he wants to send on to you all his Junci, & will send & pay the expressage. But you must poke him up.

for Mr. obliging, he is very dilatory & forgetful.

Ah! you did miss it by not replying to Short's letter. I told him to offer his herbm to Shaw, if you approved it, but I never knew before that he did.

You should give up practice & come settle here & work at Botany. There are means enough for self, wife & one boy.

We will see what Buchenau says of Juncus arcticus.

Ever. A. Gray

Rec'd Feb 26'
Cambridge Feb. 20. — 1866.
Ans March 3d

Dear Engelmann

I had not time, before I went to New York to answer yours of Feb. 1, — and now — with the good luck that comes from procrastination, yours of the 14th, in to-day assures me that I need not answer about Nuphar sagittaefolia.

—

First about your things. Fendler's trunks are one small and one very small box-like, worth 2/6 I advise that he shall buy here a cheap large trunk — costing $3.50. and put your & his things in that, and make you pay for the trunk, instead of paying 5 or 6 dollars to Express. I suppose he will do so.

As to Nuphar variegatum, I suspect the name is not very good, because I doubt if the colors about the flower are anything constant. It is the plant we used to think N. luteum, but which seeing the fruit was unlike, I supposed N. sagittaefolia I had growing once here, but failed to flower it.

Walter's whole character is "foliis cordato-sagittatis undulatis, calyce triphyllo, corolla tripetala, loculis pericarpii polyspermis."

Michaux I suppose originated the "petalis nullis" in calling Walter's "corolla tripetala" a part of calyx, But DC. Syst. is the man to blame, for he uses the "petala nulla" for something Michaux did not.

I enclose to you the greater part of an excellent flower, of N. sagittaefolia.

Like N. lutea, the sagittaefolia has thin submersed leaves – It grew so here!

I went to Norwalk to see Eaton married (& off to Europe) & to see Torrey, – had only 2 days with Torrey, one of them Sunday. He wants to send you his

Junci — says he will. The difficulty is for him to find time to put them up for you.

Passed a night at New Haven

Brewer is to send you his Junci right off.

Now about Juncus.

Juncus nodosus. "What made you put a ! after J. nodosus L. in Manual. - - - - But as Linnaeus refers to Gronovius", &c. &c., — —— - - - - "it can't be what you call nodosus". (Engelm.) Now, don't go off at half cock! For,

1. Linnaeus's reference to Gron. (meaning 152) Virg. 15., is a mistake. — a copying in from Gronovius of "Gramen junceum elatius, pericarpiis ovatis, Americanum, Pluken. Alm." — And that this is not the type of nodosus is clear, because it does not, like Gronovian things, appear in the 1st ed. of Sp. Plantarum — but in the 2d.

2d. Linnaeus' Adnot. "Simillimus J. articulato, sed flores magis capitati, capitulis varioribus, majoribus, et panicula, rami simplices, nec supra-decompositis; inprimis distinguitur petalis in acumen subulatum protractis" – all shows that Linn. was considering some plant in his herbm. (and he well describes my J. nodosus); And,

3d. My notes on Hb. Linn. verify this – by saying that: "Kalm's specimen (the original) has only 2 or 3 heads: and is just what I collected for nodosus years ago" (in N. [illegible]). Kalm collected in Canada, Penn. & Delaware. So I feel very sure about the nodosus.

Rostkov. I have not – have been unable to get.

"J. acuminatus Michx. is from S. Carolina" Very good. It has always been a trouble to me – I shall be glad to be rid of the name at the North.

Recd Febr 26

"J. brevicaudus". I am glad there is a short-tail. I feared you were making a very long story of Juncus.

C. E. Smith is a capital fellow — will do all you can ask.

Herb. Junc. Bor.-Am. normale. An excellent idea. All will contribute. Must be done.

Do not hesitate to ask. Write Chapman & Curtis; tho. you may get little. Also write to Ravenel. Say I advised you. Address Aiken, S. Car.

Mann's colls. have cost him very much money &c —

3 sets are left, one of say 300, one of 280, one of 200 — or thereabouts. All in the course of being well named.

I much wish you would strain a point & take one of these — at $10. in gold the 100. It is needful to help him. I took the fullest set & paid full price, cash for it. Ever yours A Gray.

Recd March 24th
Ans March 26

Cambridge, 20 March 66.

Dear Engelmann

I have got Mann well installed in Hendlei's place, and he is doing well, - doing botanical work too on his S. I. Plants. - will bring out an Enum. Pl. Hawaiienses.

The package of 350 sp. Hawaiian plants of his coll. is in my charge for you. I have paid for them at the rate of $10 gold (at 130) $45.50

Of course Short meant to give his Herbm.

Variorum is better than variegatum, I should think, for the Nuphar.

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It will be natural as you go on now, that you should find some of your *Junci* running together, and so diminish species somewhat.

Smith, Philada, is a nice fellow. Glad he has a good species of Juncus. He will get you more.

Brewer has sent me — to read — your letter to him.

The dimerous *Juncus* is a nice bit of a *thing*!!

I say *Juncus* — a section!

But there is an admitted genus of Grasses, *Dimeria* R. Br.! Perhaps you will take *Juncella*.

I stopped — at Hopkins insti=

gation. £220 for Lindley's Herbarium (the Orchids out: for these Kew has given £1500): and I might have got it, but Cambridge, England has offered £300, and so I do not get it. Very well. I might have been much troubled to get the money I offered.

You remember at our Club good old President Sparks: died of Pneumonia last week. This week, yesterday died of apoplexy, suddenly, good Dr. Beck, whom you must remember. One of the best of men. Alas!

Yours ever A. Gray

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Recd April 13th
Ans. April 15

Cambridge, April 9, 1866

My dear Engelmann

Yours of the 4th inst, is just in.

I like the turn you are taking in Junci, First discriminating; then uniting those that run together.

Of course, restore Juncus pallescens for debilis & protenus. Excellent to get an old name. I will copy the character for you.

And of course use the name J. Canadensis Gray ~~&~~ or paradoxus – which ever is the earlier – if you think it is not acuminatus, Mx, – which you may identify with some southern one!

In my notes on Michaux's Herb (1839) I have remarked that there is a sheet containing 2 Junci — into which a ticket is thrown

J. Canadensis G.
+
J. borealis M. —

that the former is of the nodose set.

The other a poor, doubtfull J. Stygius.

They are from "Baye de Hudson".

I note also that J. polycephalus a. crassifolius, Michx. = J. militaris, Bigelow.

But you must not trust too much to this. —

Torrey & I want your *Carte de Visite* photograph. I will send you a good one of Torrey, if you have it not from him.

Hawaiian plants, Mann says were nearly all *poisoned* at Sandwich Isld. They are carefully tied up.

Name *anceps* I *like best* for the *Nuphar*.

Mauritius plants were given to me by Hooker. I found lots of duplicates & divided them with Torrey, yourself, &c—

Now. I know not what Fungi there are in Wilkes Expedition. But I will see, & pick out a set or send you

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the whole, if you will let
me — for study.
I can now look them out,
any day.

Rollins says he can be
perfectly relied on for Herb,
Ill. Normal.

I can get I. Gerardii, — with
a reminder. Perhaps next
summer, if I visit my Mother
in N.Y. State I can do more.
Clinton, Buffalo, can be
pressed into the service.

Recd Octob 9th

Cambridge. May 5. 1866

My Dear Dr. Engelmann.

I send this hasty note by Dr. John Green, once one of our Cambridge boys, an old friend of Mrs. Gray and myself, and I hope he may be yours. He goes to St. Louis to set up in his special branch of the profession. Pray kindly receive my excellent friend, as he deserves, and be sure that your cordiality to him will greatly oblige

Your old friend

A. Gray

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Rec June 7
Ans " 8

June 1, 66.

Isoetes
Nuphar

Dear E.

Yours of 19. May was duly received, — should have been acknowledged before But correspondence so has completely overwhelmed me, I can only keep down the the most pressing portion.

Robbins, good man, is a stupid fellow to take to heart your innocent ~~on~~ enquiry, and I was an ass, in such a case, to read it to him.

I shall set H. Mann to get for you J. Greenei (Plymouth), Balticus. & Gerardi; Anything else?

About J. setaceus of Sunbury. I believe I have

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no means of answering
your enquiry.

Muhl. says "Penn. bar."

Mann. = Horace Mann,
my student — to be assistant.

"A mountain lake on Mt. Mansfield"? Yes

Concord, Mass. Yes. —
10 miles from here.

"Isoetes muricata from Woburn"
can be collected again by
W. Boott. I suppose — and
probably by Mann also.

We must ask Durand
about "Darby. Dr. Hunt."
Darby is near Philadelphia,

To-day came your *Transactions* with 34 pages of *Juncus*.

It looks *excellent*! A very good way of doing it, *running* on easy with notes, obs., or characters just as may be needed. Could not be better; all your views look so sensible and sound. Wonder how you find time to do it.

My dear old friend Dr. Harvey is dead — 15th May, — Consumption!

Ever Yours

A. Gray.

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P. S.

If you will come on and attend that meeting at Northampton in August, I think I will go with you. Let us try to get a vote to open the Academy to 150 members — and give it a local nucleus at Washington.

A. G.

I have written an announcement of your Junci for July no. of Sill. Jour.

Rec'd August 3d –
ans Aug 12

Cambridge: July 30, 1866

Dear Engelmann

Back to-day from a coasting voyage of 4 or 5 days, I find yours of 25th inst. Do I owe you for any earlier letter? I know not. — have been much broken up this month. I remain here for 10 days, then go to visit my Mother in Oneida Co N.Y. — think I shall take Northampton in my way, and and pass not over 2 days there — if I see any chance of a plan which may be proposed to locate the "National" Academy at Washington, or to popularize it.

If no chance - shall
leave, and probably resign
at end of the year,
I have promised Clinton
I will go to Buffalo
to the meeting serving the
American Association
then back home - to
work. by 20th Aug.
About Prussian war
I think as you do -
About domestic matters
I have not changed at all
my mode of thinking, as I
know. - But no time
for these things.
'Since the end of last
summer' meant only the
fact that you have done
all this work in that time.
Under the circumstances
I would, in your Appx. full

back on acuminatus

Mx, — by all means —

T. pubescens Lam. (excl. syn.)

to stand for the Montevidean

plant!

You ought to be ashamed
of supposing for a moment
that Hooker or Bentham
could be any thing but
gratified by your sending
notes on Cactaceae,
or that any thing but
accident could prevent
your having an answer
to anything you would
ask. Some accident —
probably sickness in Prof.
Oliver's family, was the
cause of the oversight, no
doubt.

Yes. Write to Britt about
Isoetes — the only way.

Tuckerman has sent
here the specimens of
Junci he promised.
Write to thank him: he is a
suspicious person — tho' kind
hearted: will be pleased to have
you say 'thank-you.'

Mann has got for you
plenty of J. Greenii & some
J. balticus & is to get more
of it & of J. Gerardi — not
yet quite good.

What else will you have.
If I light on J. nodosus
in any form, do you want it
Who will get, at Sacketts
Harbor that big Juncus
nodosus megacephalus? Clinton

If you need me to get it
by travelling 70 or 80 miles
let me know at once, — by a
letter that had best be addressed
to me care of ~~Prof. M. Perkins~~
"Prof. M. Perkins, Schenectaday
N.Y." — where I will pick it
up en route, I have paid H. Mann, $5.50, and charged it to you.

Ever yours A. Gray

Rec: Aug 11th
ans Aug 12

Cambridge Aug. 7. 1866

Dear Engelmann —

Has Buchenau of Bremen sent you his paper on Inflorescence of Juncus & Luzula — from Pringsheim's Jahrb. 1865 — with plates — diagrams — If not I will send it on to you.

Thanks for your sheet no. 30. I ought to have looked over it, but have not had time:

p. 409. J. militaris "New Jersey, C. F. Parker"! Why I got it there ages ago, — & it must be in my herb. as such — near Quaker Bridge — strictly — at Wading River. Robbins thinks it always has these leaves.

p. 417, line 1, Roeper lives at Rostock, does he not?

I am going not near Northampton at all.

Start next Monday to N. Y. State, for 10 days only, You might write to me at Buffalo, care of ~~G. W. Clint~~ G. W. Clinton, if you want anything.

Ever yours

A. Gray

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Rec'd Sept 4th
Ans Sept 19

Cambridge. Aug. 31/66

Dear Engelmann.

Clinton handed me yours of the 11th, at Buffalo, where I had a good time for 3 days, & then went to see my Mother, &c— in Oneida Co.

I have seen nothing yet of Chapman. He may turn up any day. A late letter from ~~Chas~~ Parry tells me of your son's escape, for which I am thankful. Look out well for yourself; but your visitation may now be over.

I have been home some time, but had too much else to do, and was too desultory half the time with Mrs G. at Beverly, so have let your letter lie.

Mann has sent in a letter to Braun all the sorts of Isoetes he has collected,

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and has got now some
live plants of the Concord one
(*I. Braunii?*) to send.
And Boott is to get others
for him

So you give up *Nuphar
variegatum* after all, !!
Please tell me what I
am to do in my new ed,
of *Manual* I am now
working at, with *Nuphars*
How are they to be put?

Went with Clinton
& fished up some *Isoetes*
of Niagara River, Clinton
is drying it.

I will attend now at once
to sending, from New York, a
copy of Chapman's Flora
to Lindheimer; I did not know
he was alive yet.

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I will ask him for some
seed too.

I have exchanged letters
with Ravenel. He
may do something, but
not much with specimens,
and especially seed.

In usual haste
Ever yours

A. Gray

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Ans^d Sept 7 Sept. 3 —

Dear E,

Sent to day fresh live Isoetes from W. Boott, by mail

"I. muricata"
the tall green are
Mystic Pond

I. Braunii? or ??

Tuckerman's locality.
Mystic River, at the
rise from pond.

A.G.

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[illegible] vi Ah
[illegible] Tafer
[illegible] Cont [illegible]

fungi	9 × 8.	72	
	9 × 6		54
plants	200	~~2~~16	15
genera	19.000 15 ~~20~~ 95	100	95
		188	164

Rec Sept 10
ans. 19

Cambridge, Sept. 4, 60

Dear Engelmann

You will see by this that the copy of Chapman has been duly forwarded to Lindheimer.

Pray put Lindheimer up to getting some Texan seed — especially seed of Linum Berlandieri, which we wish much to get into cultivation.

Ever Yours

Asa Gray

I hope the Isoetes went safely to you.

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Recd Sept. 27

Cambridge 22d Sept. 66.

Dear Engelmann

Boott called to-day & left your letter of the 18th.

I am glad the Isoetes reached you in nice order.

I misunderstood Boott as to where the I. muricata came from. It grows — as Boott rightly says — in the brook in Woburn, which falls into Horn Pond — Woburn. I will correct the habitat on the specimens I made, and on the live plants saved for Braun.

In writing to Braun, I think — (but am not sure) that I asked him to give me a monographic notice of our species, to put into new ed. of Manual. But if you will do it, so much the better — or publish yourself in time for me to take it up,

Ever yours A. Gray

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Recd Oct 6

C— 29th Sept. 68

Dear A. Yours of the 25th just received. Fumariaceae of Manual now is, likely to be in type when I next can hear from you.*

As you did not return my slip of paper with notes — I can't at this moment set all right. — But. — your seeds, now sent, of C. aurea var. montana, & of C. flavula, are alike as to carination. — And ~~[illegible]~~ the montana is to me a good species by seeds as well as spur. Montana must be kept under that name, being published.

And as to curvisiliqua, I understand you have no seeds, being good in my Lindh. 546, May, 1851. & 433, 1850. They are sharp-edged & muriculate, and to me mark the species. Here are 2 seeds from one sp. one from the other.

---

* No matter, I do not touch the points, except by my character of C. aurea, and as to flavula

I want seeds of your crystallina olim pruinosa the latter name published & good. Don't go changing so!

Your micrantha I have before from you, with good fruit. I confounded it with the flavida and had marked it "seeds just as true aurea". You bet it is an (early-flowering?) close-fertilized, imperfectly-developed corolla state of aurea.

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The question now is about
C. flavula — which, as
you understand it I have
only from Louisiana, Hale,
no ripe seed. — and what
you now send.

As to "crest on petals", it
is much the same in aurea;
no difference to speak of.
The spur is shorter, however.
The shape + size & direction of the ~~app~~ arillus
I place no confidence in
Sprague's fig. in Gen. Ill. is good
for nothing; the arillus is generally
entire or nearly so.

Unfortunately I can see
the seed together, or com-
paring yours with the plant
which cultivates itself in
the garden — all with deep
golden flowers.

So, at present, I dare not
bring flavula up to species —
Consequently I fear montana.

But curvisiliqua I think good.

—

Your seeds of montana Fendler — (which I had not) are intermediate between those of C. aurea & my Wright's 1309, (= Hall & Harbour 31?) — which are so sharp edged ~~that~~ I could swear by the species, — now I dare not!
I send 2.

You will have received my letter telling you of the mistake about the station of the I. muricata

Teschemacher died some 10 years ago. He had a son in the Sandwich Isd. He never went there, nor to ~~the~~ Sumatra. But his son got Ferns in S. I.
Parry wrote me at once of George's escape: thank God.
The new ed. of Manual must be set up very rapidly.
A.G.

Rec'd Nov 26th
Ans Dec 11th

Cambridge. 20. Nov. 1866

Dear E.

Yes, I have a heap unanswered from you — But I have not one moment of time

I have copy of Manual in printers hand up to Compositae — and am only now 2 days ahead — have been only 2 hours ahead day after day!! It is awful. So much other work too!

I will have a box off for you in a day or two!

The last from you is of Nov. 12.

Corydalis, I lay aside all notes & materials now — to revise the stereotype plate before printing. —

The C. crystallina is in Torrey's herb. from Nuttall, Arkansas — I remember it.

Buckley — let him go to Gray, but ask Shumard to secure specimens.

If I could get $500 – 1000 a year
I would at once resign professorship & salary;

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Besides the Junci Mann promised
he has got you a stock of a form
of nodosus

Yes, I will send you all my
Isoetes — And you shall
work them up for Manual,
— neat, brief, diagnostic characters
you know. —

Wright tells me in last
letter that he has a gigantic
one in Cuba — has not
sent it yet,

As to Agassiz,
2½ years ago, he insulted
me so foolishly & grossly,
that we have had no kind
of intercourse — till — a month
ago — he sought thro. a
friend a reconciliation — — he
proposed a most complete &

satisfactory apology; & now we are on hearty pleasant terms — to his great relief.

I think he means to avoid trouble now & get on smoothly. I hope so — I have none but pleasant & kind feelings towards him.

Yours of Oct. 22.

I have no Isoetes of Geyer (or others) from Columbia R.

The little customer from Ravenel I dont know at sight. Some Cast-away. No Stylosanthes, no affair of mine now. no passion,

Corydalis — drawings & notes — all laid away to revise in Feby, I have just done up ~~Vibu~~ Viburnum for Manual.

V. scabrellum, must be V. molle — & has seed ~~near~~ (from what you sent me) near V. dentatum. That you should have had ripe. — The seed is all but horse-shoe-shaped,

There — I believe I have worked up your letters, as well as I can —

Lately some pamphlets for you from DC —
They go with the rest of the things for you —

Ever Yours hard-worked

A Gray

Rec. Nov 27
Ans. Dec 11

Sagittaria [illegible] var

C — 23.

1866

Dear E.,

I wrote you 2 days ago. Since I have yours of 18th — about Sagina. &—

The Philada. or N. Y. Sagina = S. Elliottii — = S. subulata Eu. only our plant is ①.

I am well — never more hearty. But worked like a coach-horse. I have got my fund raised for Garden: small but we have now clear ~~2100~~ 2500 or 2600 a year for Garden. Ever A. G.

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Yes Miss Lamm is the plump lady, -- she has spoken often of you.

A.G.

Sagitt variabilis has regularly the remains of style in fruit erect or a little recurved, so that the fruit head appears squarrose;

but there is a form with styles appressed, where the head appears smooth,

Rec. Dec 6
Ans. Dec

Cambridge, Dec. 1, 1866.

Dear E.,

Mann has been sick a little. To-day off goes for you a trunk (Fendler's old one) & a parcel (would not go in) by Express—carefully directed to you—Contains all your things—and my Isoëtes. Here is the key (tho' a nail will open the trunk as well).

You will find copy of the R. Brown's works Vol. 1,—Bennett (Editor) sent one to me—one to Torrey & one for me to give as I chose—I chose you, of course—tho' you may have the Nees German ed. Write a line of acknowledgment that I can send to Bennett.—

This afternoon Brott left here the roots you kindly sent. Thanks, many, also send Diphylleia [illegible]:—all wanted here.

Two days ago came
yours of Nov. 25.
I keep the "Corydalis crys-
tallina" — & all such, till I
revise in January, & see if I
will alter the plate any.
Find some other way for
me — & I will send another
copy of Chapman's Flora
(which I have) to Lindheimer.
I want him, in time, to send
me seed of the old Texan thing
— and of Linum Berlandieri.
Old Schlechtendal is
dead, Ever yours
A Gray

Now put up for me
Cuscuta — if anything.
Callitriche
Euphorbia.
Sagittaria
Sparganium,
Isoetes.
Juncus ——
Coniferae
etc. etc. —
etc, etc.

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Recd Dec 21st 1866 Chapman?
Ansr Dec 29

Cambridge. 14. Dec.

Dear Engelmann

I have got to the Plantaginaceae, — the printer close on me.

I begin to think of Callitriche. Also of Quercus. Pray ~~tell~~ give me, fresh, any suggestions or notes about these as they stand in the Manual

Have you received the box, all right.

Ever Yours

A. Gray

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Rec. Dec 21st 1886
Ans. Dec 29

Lobelia leptostachys — I see there are ~~many~~ some various forms ~~most~~ of L. spicata auct. — But I think they keep clear of L. leptostachys.

Thanks — — Merry Christmas to you & yours. Ever

A. G.

Sat. evening. Dec. 15 —

Dear E.

Yours of 11 came this morning. Mamma takes your reproof perfectly well, and will do better next year, for you.

For Expl. Exped. plants — send acknowledgment to Prof. Henry, Secretary Smithsonian Institution.

Thanks for the short notes — many are too late, except I can alter on the plate, where written whole.

Taking up Isoëtes you begin at the wrong end. Callitrichaceae, fruit, — Euphorbia, Quercus — Sparganium, Sagittaria —

Lapham's plant — which I had — is N. pubescens.

The roots you sent are put in a cold frame for the winter.

Letters for Wright enclose to me. I have written that he should send some of said Isoëtes.